Peachtree Charter Middle School								
Teacher:	FREEMAN			Week of: Sept 25-29		The Cell in Action Chapter 4		
Co-Teacher/Para:	Life Colonge							
Course:	CZL2 Obtain avalua							
(content specific)	S/L2.Obtain, evaluate, and communicate information to describe how cell structures, cells, tissues,							
	organs, and organ systems interact to maintain the basic needs of organisms.							
Supporting Standards: (content specific)	S7L3.a Explain the role of genes and chromosomes in the process of inheriting a specific trait.							
Non-Content Standards:	M7A1 a Translate verbal phrases to algebraic expressions							
(WIDA, Interdisciplinary	M7D4 c Recognize and apply mathematics in contexts outside of mathematics							
standards, literacy, etc.)	וואריא.כ הפנטצוווצפ מווע מאאוי וומנוופווומנוכא ווו נטוונפגנא טענאועפ טו ווומנוופווומנוכא.							
Learning Targets:	The intent is for students to demonstrate how the component structures of the cell interact and work							
(what learners will be able to do at the end of the learning	together to allow the cell as a whole to carry out various processes. Students will understand how the							
activity)	solar energy and photosynthesis is necessary for life.							
Essential Question(s):	What is diffusion? How does osmosis occur? How are active and passive transport different? The same? How do particles get							
(addresses philosophical	inside and out of the cell?							
foundations; contains multiple								
answers; provide inquiry)	Colle contain organolles that work together to correct out functions that allow the coll to obtain mutulents							
(main ideas, foundational	cens contain organelies that work together to carry out functions that allow the cell to obtain nutrients							
understandings, conclusions or	in order to grow, reproduce, make needed materilas, and process waste. The cell cycle is the life cycle of							
generalizations0	the cell.							
Academic Vocabulary:	. cardiovascular, cell membrane, cell wall, cells, chloroplasts, cytoplasm, digestive, DNA, endoplasmic							
	reticulum, excretory, golgi bodies, homeostasis, immune, lysosomes, betabolism, mitochondria,							
	osmosis, diffusion, active transport, passive transport, cell cycle, photosynthesis, cytokinesis							
STEM	Students will be ab	le to develop and u	ise illustrat	tions to describe the	e life cycle	e of a cell.		
Interdisciplinary Integration:	Activoly domonstrato be	w particlas mova in an	d out of the c	all				
Resources:	Textbooks x	Lab Materials	x Ma	ninulatives X	Other: (List the other resources below)		
(weekly materials chosen to	Audio/Visual Aids X	Course syllabus		ternet (Tech) X	Other. (Interactive Notebook		
support teaching and learning)	Handouts X	Dictionaries	El	ectronic Devices x				
	White Boards X	Video Clips	X Pro	omethean Board X				
	ſ	Daily Lesson Pla	an for Monda	y .				
Pre-Instructional Activity:	Question from previous	lesson.	d the process	of photocypthesis. The		to ovalain about collular		
(introduces the lesson:	respiration and ferment	ation.	u the process	or photosynthesis. They	y will be able			
summarizes previous lesson;								
clarifies misconceptions)								
WORK PERIOD	Students will read Chap	ter 4: The Cell in Action,	Section 2: Ce	ell Energy				
(EXPLORE/EXPLAIN/EXTEND/	Students will read, discu	iss and interact with the	e second sections around a section of the second section of the section of the second section of the section of the second section of the section of th	ion of this chapter. Video	o shorts will	be shown to demonstrate cellular		
(contains the mini lesson: allows	respiration and photosynthesis Notes will be provided to be filled in by the student. Any questions answered and misconceptions resolved							
students to practice concept;								
assesses student learning								
CLOSING: (EVALUATE):	Students will review vocab. Short game played with class to check for understanding.							
(summarizes the lesson; ensures								
misconcentions)								
HOMEWORK	Notes to be completed	RON. Possible additiona	l assignment.					
		Daily Lesson Pla	an for Tuesda	у				
Pre-Instructional Activity:			Question f	rom previous lesson.				
Opening (ENGAGE):	Students will explain ho	w they would bring life	back to a bar	on island using the infor	mation from	the previous lesson,		
	Students will read, discuss and take notes on Section 3: The Cell Cycle. Students will be able to demonstrate how the process							
ELABORATE):	Notes will be filled in by students. Questions answered.							
CLOSING: (EVALUATE)	Review vocab. Check for understanding.							
HOMEWORK	RON. Read over notes each night. All notes.							
	Daily Lesson Plan for Wednesday							
Pre-Instructional Activity:	Question from previous lesson.							
Opening (ENGAGE):	I ne Cell Cycle demonstr	ation						

WORK PERIOD	The students will continue to read, discuss and take notes on Section 3: The Cell Cycle. Students will create a cartoon based on the						
(EXPLORE/EXPLAIN/EXTEND/	cell cycle which will show their understanding of the concepts.						
ELABORATE):							
CLOSING: (EVALUATE)	Review for understand and any misconceptions. Short game to test knowledge.						
HOMEWORK	RON. Possible Pop Quiz coming up.						
Daily Lesson Plan for Thursday							
Pre-Instructional Activity:	Question from previous lesson.						
Opening (ENGAGE):	Baylor University video will be watched on the cell cycle.						
WORK PERIOD	Continue with the cell cycle and the cell cartoons in class. Any misconceptions and misunderstanding will be clarified.						
(EXPLORE/EXPLAIN/EXTEND/							
ELABORATE):							
CLOSING: (EVALUATE)	Quick vocab review game.						
HOMEWORK	RON						
Daily Lesson Plan for Friday							
Pre-Instructional Activity:	Question from previous lesson.						
Opening (ENGAGE):	Cell cycle reminder						
WORK PERIOD	Finishing up of cell cartoons with presentations.						
(EXPLORE/EXPLAIN/EXTEND/							
ELABORATE):							
CLOSING: (EVALUATE)	Vocab review						
HOMEWORK	RON TEST NEXT THURSDAY						
Differentiated Instruction		Assessment Evidence					
(content, process, product)		(formative, summative)					
Students with stronger understanding will work with those still having trouble with		Pop quiz. Last Scientist Standing and/or Trivia Game to check for					
0							
the concepts. Additional enrichmen	t work for those ahead of the others.	understanding.					

Additional Resources as Needed

	in the	e areas below, pla	ice an "x" in the boxe	s to i	indicate selected stra	tegies	s and resources				
Research Based Instruction	onal	OPENING: Activate Prior		x Questioning		x Clarify Previous		х	Phenomenon	х	
Strategies:		Engaging	Knowledge		(Raises questions)		Lesson				
(weekly strategies chosen to guide i		instructional	Provide	х	Scaffold	х	Create Interest	х	Other:		
teaching and learning)		activity	Feedback		Instruction						
	w		Facilitate	х	Academic	х	Cooperative	х	Other:		
		Exploring,	Learning		Discussions		Learning				
		Explaining,	Demonstrate/	e/ x	Generating and		Independent	х	Other:		
	E	Extending, and	Model		Testing		Learning				
		Elaborating			Hypotheses						
			Explain/Apply/	х	High-Level	х	Interdisciplinary		Other:		
			Extend concepts		Questioning		Writing				
			and skills								
				1		-		-		_	
		CLOSING:	Summarize	х	Provide Alternate		Respond to EQs		Other:		
		Evaluating	Lesson		Explanations	_	/	_		_	
			Allow students	х	Quick Write		3-2-1/K-W-L		Other:		
			to assess their								
			own learning								
										_	
			Interventio	on S	trategies						
Intervention S	trategies	Specifically I	Designed Instruction	for t	he Exceptional		Strategies for Englis	sh La	nguage Learners		
(Tiers 1, 2	2.3)		Education Stude	nts							
Additional Support in	the Classroom										
Re-voicing		Conference	ing			Vi	suals/ Realia				
Explaining		Additiona	time	ne			Front-loading				
Prompting for partici	pation	Small grou	p collaboration			Ec	hoing/Choral Response				
Challenging or counter	ering	Modify qu	Modify quantity of work				olor-coding				
Asking "Why?" "How	"	Take stude	Take student's dictation				Multiple exposures in different media				
Reread		Scaffold Ir	Scaffold Information				Pair-share				
Practice new vocabul	ary	Differentia	Differentiated content/process/product				Modeling				
Assistive technology		Consisten	Consistent reward system				Language scaffolds: eg, sentence frames				
Pre-teach & re-teach	in a different way	Refer to st	Refer to student's IEP or 504 Plan				Deconstruct complex sentences				
Use of manipulatives		Assistive t	Assistive technology				Increase student-to-student talk				
Collaborative work							Strategies vocabulary instruction				
Create differentiated	text sets						Additional Think Time				
			Gifted-Extensi	ions	for Learning						
			Ti	ier 1							
Flexible-Learning Gro	Varied Pag	Varied Pacing with Anchor Options			Varied Supplemental Materials						
Choice of Books		Work Alor	Work Alone or Together			Computer Mentors					
Homework Options		Flexible Se	Flexible Seating			Think-Pair-Share					
Use of Reading Buddi	ies	Varied Sca	Varied Scaffolding			Open-Ended Activities					
Various Journal Prom	ipts	Varied Co	Varied Computer Programs			Explorations by Interest					
Student/Teacher Goa	Design-A-	Design-A-Day									
			Т	ier 2							
Gifted Educ Cluster C	lasses	Alternativ	Alternative Assessments				Community Mentorships				
Gifted Educ Collabora	ation Classes	Subject Ad	Subject Advancement within class				Stations				
Tiered Activities and	Products	Curriculur	Curriculum Compacting				Group Investigations				
Use of Literature Club	os	Tiered Centers				Assess Students in Multiple Ways					
Multiple Testing Opti	ons	Spelling by	Spelling by Readiness				Student Choice				
Multinple Texts	Varying O	Varying Organizers			Simulations						
	Tier 3						Tier 4				
Advanced Content(all core content)			Above grade lev			el accelerated (all core content)					
Resource Classes			Advanced Placer			nent Classes					
Independent/Directe	d Study		International Ba			ccalaureate Classes					
Socratic Seminars Internships/Mentorships											
21 st Century Learning	ollaboration	ation Innovation and Creativity			Accessing and Analyzing Information						
Skills: (weekly Initiative and Lead		dership	hip Critical Thinking and Problem-		Problem-	Ef	fective Oral and Writter	n Con	nmunication		
strategies chosen to			Solving								
guide student	Curiosity and Ima	gination	ion Flexibility and Adaptability			Ot	her:				
engagement)	L										
Adapted from the DCSD R	CD Aligned Lesson I	Plan Template 8.3	31.17								